

DS-2SE7C220MWG-EB/14 2 MP 20× IR Network Speed Dome

ColorVu

Powered by

DarkFighter



Hikvision DS-2SE7C220MWG-EB/14 2 MP 20 × IR Network Speed Dome adopts 1/2.8" progressive scan CMOS chip. With the 20 × optical zoom lens, the camera offers more details over expansive areas. This series of cameras can be widely used for wide ranges of high-definition, such as rivers, roads, railways, airports, squares, parks, scenic spots, and venues, etc.

- High quality imaging with 2 MP resolution
- Captures a large area and great details at the same time
- Excellent low-light performance with powered-by-DarkFighter technology
- Focuses on human and vehicle targets classification based on deep learning
- Secures an expansive area with 20 × optical zoom and 16 × digital zoom
- Supports WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus
- Expansive night view with up to 200 m IR distance
- Supports 36 VDC & Hi-PoE
- Active strobe light and audio alarm to warn intruders off

▪ Specification

Camera	
Image Sensor	[Bullet channel] 1/1.8" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive Scan CMOS
Max. Resolution	[Bullet channel] 2560 × 1440, [PTZ channel] 1920 × 1080
Min. Illumination	[Bullet channel] Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light, [PTZ channel] Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0.0001 Lux @ (F1.0, AGC ON), 0 lux with IR
Shutter Speed	1 s to 1/30,000 s
Day & Night	ICR
Zoom	[PTZ channel] 20 × optical, 16 × digital
Slow Shutter	yes
Lens	
Focal Length	[Bullet channel] 4 mm, [PTZ channel] 10 to 200 mm
FOV	[Bullet channel] horizontal field of view: 88.7°, vertical field of view: 44.7°, diagonal field of view: 105°, [PTZ channel] horizontal field of view: 30.3° to 1.65°, vertical field of view: 17.2° to 0.95°, diagonal field of view: 34.6° to 1.9°
Focus	Auto, semi-auto, manual
Aperture	[Bullet channel] F1.0, [PTZ channel] F1.0
Zoom Speed	Approx. 4.2 s
Illuminator	
Supplement Light Type	[Bullet channel] White Light, [PTZ channel] IR
Supplement Light Range	[Bullet channel] White light: up to 30 m, [PTZ channel] IR: up to 200 m
Smart Supplement Light	Yes
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	-15° to 90° (auto flip)
Pan Speed	pan speed: configurable from 0.1° to 160°/s; preset speed: 240°/s
Tilt Speed	tilt speed: configurable from 0.1° to 120°/s, preset speed 200°/s
Proportional Pan	yes
Presets	300
Preset Freezing	yes
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Park Action	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	yes
PTZ Status Display	yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Power-off Memory	yes

Video	
Main Stream	[Bullet channel] 50 Hz: 25 fps (2560 × 1440 , 1920 × 1080 , 1280 × 960 , 1280 × 720), 60 Hz: 30 fps (2560 × 1440 , 1920 × 1080 , 1280 × 960 , 1280 × 720), [PTZ channel] 50 Hz: 25 fps (1920 × 1080 , 1280 × 960 , 1280 × 720), 60 Hz: 30 fps (1920 × 1080 , 1280 × 960 , 1280 × 720)
Sub-Stream	[Bullet channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	[Bullet channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG
Video Bit Rate	32 kbps to 16384 kbps
H.264 Type	Baseline profile, Main profile, High profile
H.265 Type	Main profile
Scalable Video Coding (SVC)	yes
Region of Interest (ROI)	8 fixed regions for each stream
Audio	
Audio Compression	G.711, G.722.1, G.726, MP2L2, PCM, MP3, AAC-LC
Audio Bit Rate	64 Kbps (G.711), 16 Kbps (G.722.1), 16 Kbps (G.726), 32 to 192 Kbps (MP2L2), 16 to 64 Kbps (AAC-LC), 8 to 320 Kbps (MP3)
Audio Sampling Rate	MP2L2: 16 kHz, 32 kHz, 48 kHz, AAC-LC: 16 kHz, 32 kHz, 48 kHz, PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz, MP3: 8 kHz, 16 kHz, 32 kHz, 48 kHz
Environment Noise Filtering	yes
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, WebSocket, WebSockets
Simultaneous Live View	20
API	ONVIF (Profile S, Profile G), ISAPI, SDK, ISUP, Open-ended API
User/Host	32
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Client	iVMS-4200, HikCentral Pro, Hik-Connect
Web Browser	IE 11, Chrome 80+, Firefox 80+, Safari 13+, Edge 89+
Image	
Image Parameters Switch	Yes

Image Settings	Saturation, brightness, contrast, sharpness
Day/Night Switch	day, night, auto, scheduled-switch
Wide Dynamic Range (WDR)	120 dB WDR
SNR	> 52dB
Defog	yes
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	[Bullet channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable
Regional Focus	yes
Regional Exposure	yes
Interface	
Ethernet Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Audio	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%, 1 audio output, line level, impedance: 600 Ω
Alarm	2 input(s), 1 output(s)
Reset	yes
Event	
Basic Event	[PTZ channel] motion detection, video tampering alarm, [PTZ channel & bullet channel] alarm input and output, exception
Smart Event	[PTZ channel & bullet channel] audio exception detection, [PTZ channel] line crossing detection, intrusion detection, region entrance detection, region exiting detection, [Bullet channel] line crossing detection, intrusion detection, region entrance detection, region exiting detection
Linkage	[Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, [PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, and PTZ actions (such as preset, patrol scan, pattern scan)
Smart Tracking	[PTZ channel] yes
Smart Linkage	Manual tracking, auto tracking, tracking takeover, track in turn
Deep Learning Function	
Face Capture	[Bullet channel] no, [PTZ channel] yes, Supports detecting, tracking, capturing, grading, selecting of face in motion, and outputs the best face picture
General	
Power	36 VDC ± 25%, max. 32 W, Hi-PoE
Dimension	222.3 mm × 252.6 mm × 407.5 mm (8.75" × 9.94" × 16.04")
Weight	Approx. 6 kg (13.23 lb.)
Material	ADC12
Operating Condition	-30 °C to 65 °C (26.6 °F to 149 °F). Humidity 90% or less (non-condensing)
General Function	mirror, password protection, watermark, IP address filter
Demist	Demist by heating the glass

Approval

Protection	IP67 (IEC 60529:2013), IK10 (IEC 62262:2002), TVS 6000 V lightning protection, surge protection and voltage transient protection
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▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

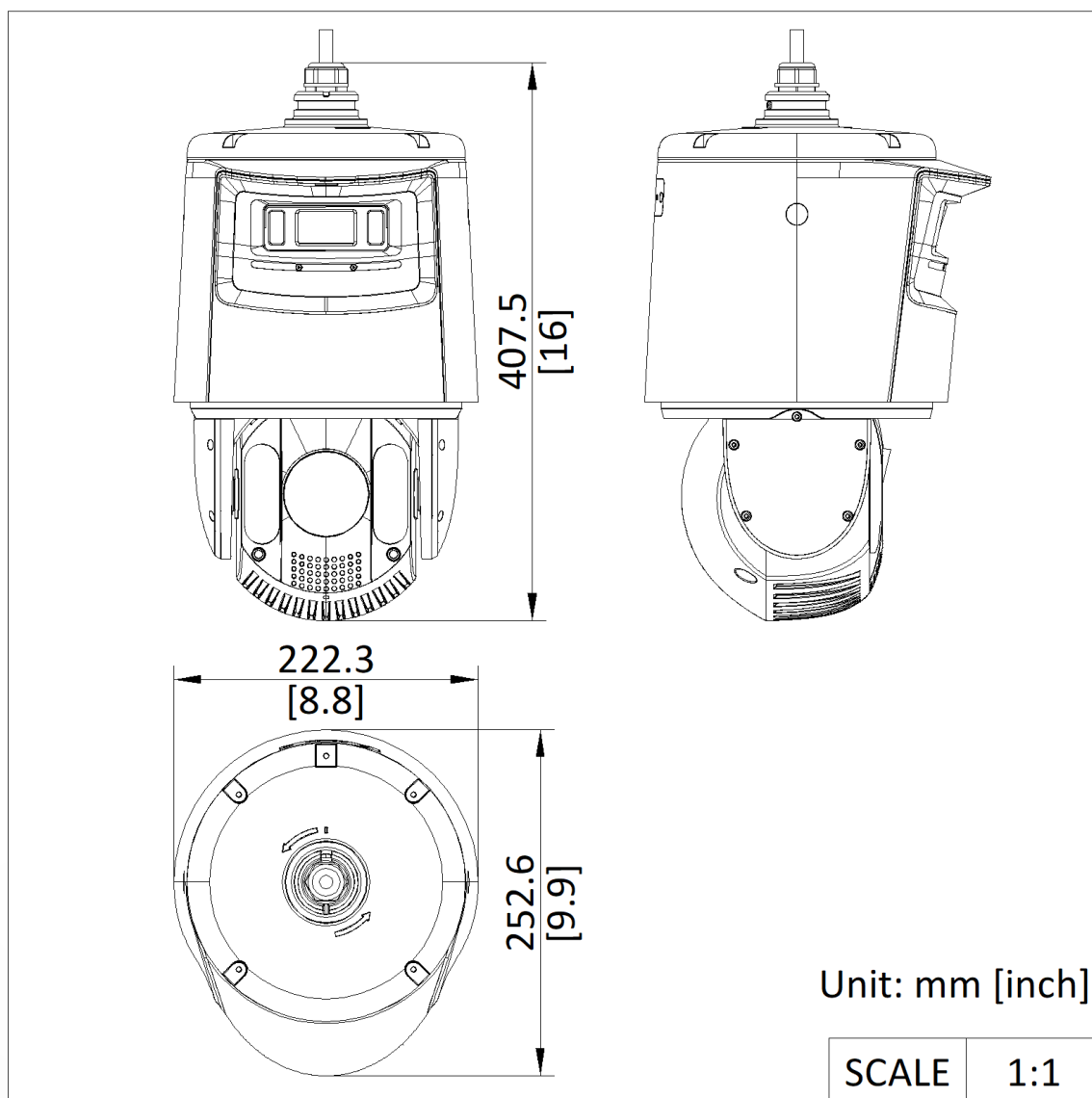
DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2240.0m	889.0m	448.0m	224.0m

▪ Available Model

DS-2SE7C220MWG-EB/14(F0)

DS-2SE7C220MWG-EB/14(F0)(B)

▪ Dimension



▪ **Accessory**

▪ **Included**

DS-1602ZJ



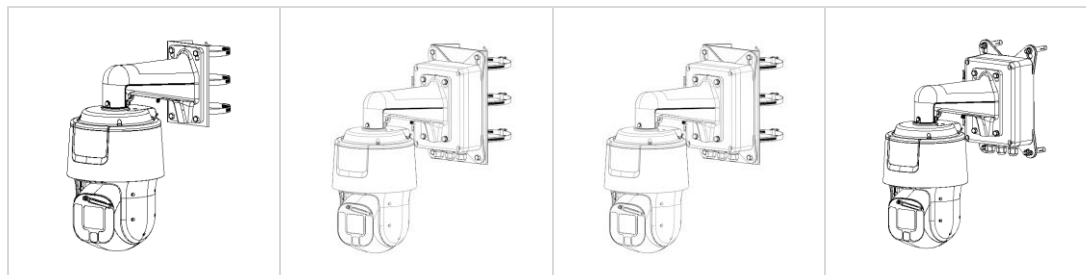
▪ **Optional**

DS-1604ZJ-BOX-CORNER	DS-1604ZJ-box	DS-1604ZJ	DS-1660ZJ	DS-1661ZJ
DS-1662ZJ	DS-1667ZJ	DS-1673ZJ	DS-1604ZJ-BOX-POLE	DS-1684ZJ
DS-1604ZJ-pole	DS-1663ZJ	DS-1604ZJ-corner	DS-1619ZJ	DS-1674ZJ
DS-4650ZJ-WC	DS-4660ZJ-WC	DS-1276ZJ		



■ Installation Methods

Wall Mounting DS-1602ZJ	Wall Mounting DS-1604ZJ-box	Wall Mounting DS-1604ZJ	Corner Mounting DS-1604ZJ-BOX-CORNER	Corner Mounting DS-1604ZJ-corner
Corner Mounting DS-4660ZJ-WC+DS-1602ZJ+DS-1674ZJ	Corner Mounting DS-1276ZJ+DS-1602ZJ	Gooseneck Mounting DS-1660ZJ	Gooseneck Mounting DS-1619ZJ	Pendant Mounting DS-1661ZJ
Pendant Mounting DS-1662ZJ	Pendant Mounting DS-1667ZJ	Pendant Mounting DS-1663ZJ	Horizontal Pole Mounting DS-1673ZJ+DS-1662ZJ	Vertical Pole Mounting DS-1604ZJ-BOX-POLE
Vertical Pole Mounting DS-1684ZJ+DS-1602ZJ	Vertical Pole Mounting DS-1604ZJ-pole	Vertical Pole Mounting DS-4650ZJ-WC+DS-1674ZJ+DS-1602ZJ	Junction Box DS-1674ZJ+DS-1602ZJ	



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